



3-terminal Filters

For Large-current Power Line

YFF-HC Series

YFF31HC 3216 [1206 inch]* Feed through filter

* Dimensions Code JIS[EIA]

3-terminal Filters

For Large-current Power Line

Conformity to RoHS Directive
Lead-free Compatible

Overview of YFF-HC Series

FEATURES

- Small and high-performance EMC components.
- Good attenuation characteristic in a wide band range.
- For large current (6A to 10A) applications.

APPLICATIONS

Power line of AV (LCD, PDP) products and information products (PC, server).
Countermeasures against power-supply noise of communications infrastructure PA.

PART NUMBER IDENTIFICATION


| YFF | 31 | HC | 2A | 105 | M | T | □□ | 0 | N | | | | | | |
|-------------|----------------|---------|-----------------------|---------------|---------------|-----|-------------|-------------------|-----------|------|--------|-------------------|-----------|------|-----------------------|
| Series name | L×W dimensions | | Product internal code | | Rated voltage | | Capacitance | | Tolerance | | Taping | TDK internal code | Reel size | | Internal electrode Ni |
| | Code | mm | Code | | V | | Code | pF | | | | | Code | mm | |
| | 31 | 3.2×1.6 | HC | Large current | 1H | 50 | 103 | 10,000 | M | ±20% | | | 0 | ø178 | |
| | | | | | 2A | 100 | 153 | 15,000 | | | | | 9 | ø330 | |
| | | | | | | | 105 | 1,000,000 (1.0μF) | | | | | | | |

PACKAGING STYLE AND SPECIFICATIONS

| Type | Package quantity (piece/reel) | | Single weight (g) |
|---------|-------------------------------|--------|-------------------|
| | ø178 | ø330 | |
| YFF31HC | 2,000 | 10,000 | 0.0342 |

○ Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

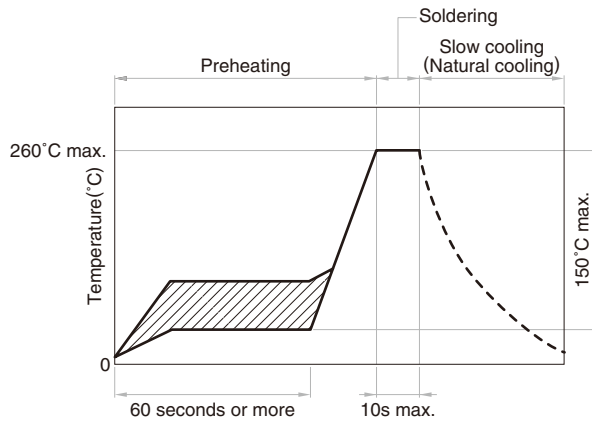
○ Please contact our Sales office when your application is considered the following:
The device's failure or malfunction may directly endanger human life (e.g. application for automobile/aircraft/medical/nuclear power devices, etc.)

 Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
Please note that the contents may change without any prior notice due to reasons such as upgrading.

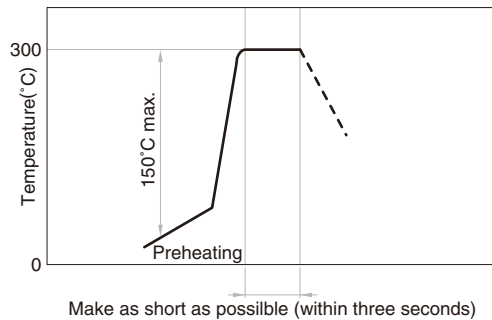
Overview of YFF-HC Series

RECOMMENDED SOLDERING CONDITION

REFLOW SOLDERING



HAND SOLDERING

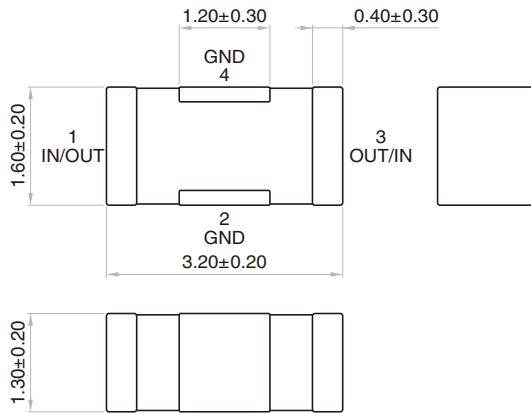


PRECAUTIONS FOR USE

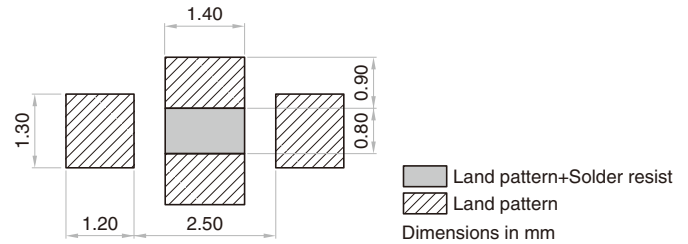
- Before soldering, be sure to preheat components. The ΔT preheating temperature must be 150°C max. with attention paid to thermal shock.
- Natural cooling of components in the air is recommended. On the other hand, when dipping them in a solvent for purposes, such as cleaning, make sure that the temperature difference (ΔT) is 100°.
- When performing hand soldering for circuit modification, apply the soldering iron to the copper foil area of the printed circuit board for 3 seconds or less. The temperature of the iron tip should not exceed 300°C.
- Use a wrist band to discharge static electricity in your body through the grounding wire.
- When incorporating the printed circuit board on which this product is mounted into a frame, etc., do not apply stress to the product through local bending of the board by tightening of screws, etc.

YFF-HC Series YFF31HC Type(Feed Through Filter)

SHAPES AND DIMENSIONS



RECOMMENDED LAND PATTERN



* Make sure to connect the GND terminal of this product and the GND of the mounting circuit board by using through holes so that the distance between them is the shortest.

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

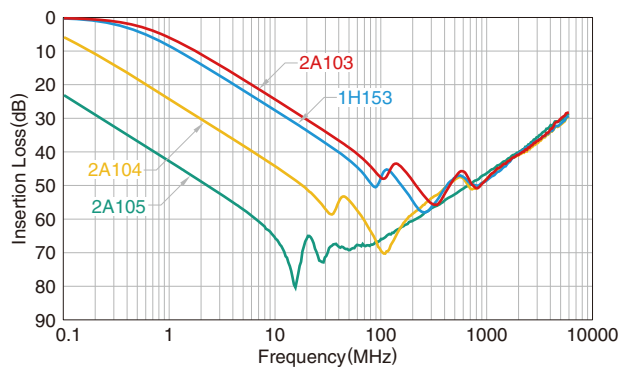
| Insertion loss 40dB bandwidth (MHz) | Rated voltage Edc (V) | Rated current Idc (A) | Operating temperature range (°C) | Storage temperature range(After mount) (°C) | Part No.* |
|---|-----------------------------|-----------------------------|--|---|----------------------|
| 0.8 to 2000 | 100 | 6 | -55 to 125 | -55 to 125 | YFF31HC2A105MT00 □ N |
| 7 to 2000 | 100 | 10 | -55 to 125 | -55 to 125 | YFF31HC2A104MT00 □ N |
| 40 to 2000 | 50 | 10 | -55 to 125 | -55 to 125 | YFF31HC1H153MT00 □ N |
| 60 to 2000 | 100 | 10 | -55 to 125 | -55 to 125 | YFF31HC2A103MT00 □ N |

* The part numbers are TDK's standard specification products.

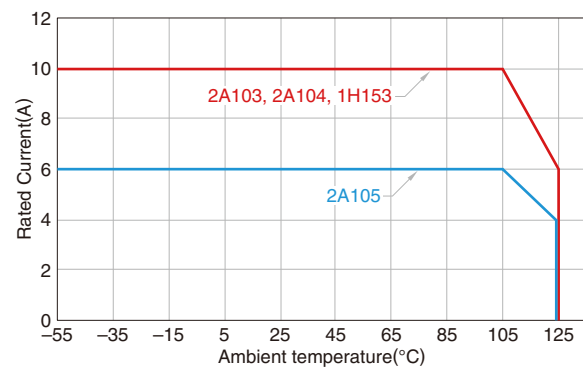
* □: Please specify reel size code, 0 (ø178) or 9 (ø330)

ELECTRICAL CHARACTERISTICS GRAPH (EXAMPLE)

INSERTION LOSS vs. FREQUENCY CHARACTERISTICS

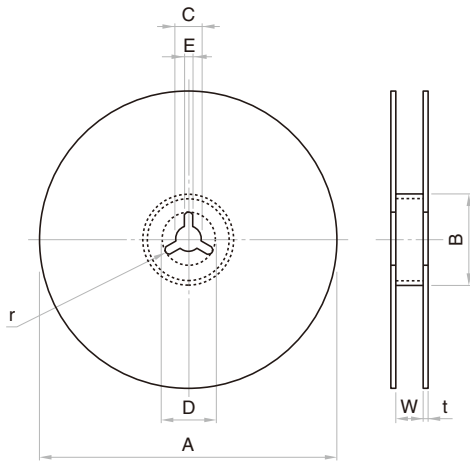


RATED CURRENT vs. TEMPERATURE CHARACTERISTICS (DERATING)



YFF-HC Series Packing Style

REEL DIMENSIONS

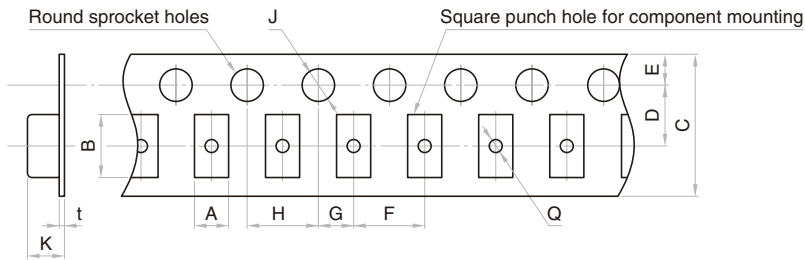


Dimensions in mm

| Reel | A | B | C | D | E | W | t | r |
|------|----------------------|----------|---------|---------|---------|----------|---------|-----|
| ø178 | ø178±2.0 | ø60±2.0 | ø13±0.5 | ø21±0.8 | 2.0±0.5 | 9.0±0.3 | 2.0±0.5 | 1.0 |
| ø330 | ø382 max.(ø330 nom.) | ø50 min. | ø13±0.5 | ø21±0.8 | 2.0±0.5 | 10.0±1.5 | 2.0±0.5 | 1.0 |

TAPE DIMENSIONS

Plastic tape



Dimensions in mm

| Type | A | B | C | D | E | F | G | H | J | K | t | Q |
|---------|-----------|-----------|-----------|----------|-----------|-----------|----------|-----------|--------------|-----------|-----------|------------|
| YFF31HC | 1.90 typ. | 3.50 typ. | 8.00±0.30 | 3.5±0.05 | 1.75±0.10 | 4.00±0.10 | 2.0±0.05 | 4.00±0.10 | ø1.5+0.10/-0 | 2.50 max. | 0.30 max. | ø0.50 min. |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

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